

Title (en)  
METHOD FOR THE EARLY DETECTION OF RENAL DISEASE AND INJURY

Title (de)  
VERFAHREN ZUM FRÜHEN NACHWEIS EINER NIERENKRANKHEIT UND -VERLETZUNG

Title (fr)  
PROCEDE POUR DETECTER DE MANIERE PRECOCE UNE MALADIE RENALE ET UNE LESION RENALE

Publication  
**EP 1766395 A4 20080319 (EN)**

Application  
**EP 05755309 A 20050607**

Priority  
• US 2005019951 W 20050607  
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• US 9611305 A 20050331

Abstract (en)  
[origin: EP2264459A2] A method and kit for detecting the early onset of renal disease and injury, including renal tubular injury, utilizing NGAL as an early blood serum biomarker. NGAL is a small secreted polypeptide that is protease resistant and consequently readily detected in the blood serum following renal tubule cell injury. NGAL protein expression is detected predominantly in proximal tubule cells, in a punctate cytoplasmic distribution reminiscent of a secreted protein. The appearance NGAL in the serum is related to the dose and duration of renal ischemia and nephrotoxicity, and is diagnostic of renal tubule cell injury and renal failure. NGAL detection is also a useful marker for monitoring the nephrotoxic side effects of drugs or other therapeutic agents.

IPC 8 full level  
**G01N 33/53** (2006.01); **G01N 33/536** (2006.01); **G01N 33/537** (2006.01); **G01N 33/542** (2006.01); **G01N 33/543** (2006.01);  
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CPC (source: EP US)  
**G01N 33/573** (2013.01 - US); **G01N 33/6893** (2013.01 - EP US); **G01N 2333/82** (2013.01 - EP US); **G01N 2800/347** (2013.01 - EP US);  
**G01N 2800/52** (2013.01 - EP US)

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• [E] EP 1616184 A2 20060118 - CHILDRENS HOSP MEDICAL CENTER [US], et al  
• [X] OHLSSON S ET AL: "Increased circulating levels of proteinase 3 in patients with anti-neutrophilic cytoplasmic autoantibodies-associated systemic vasculitis in remission.", CLINICAL AND EXPERIMENTAL IMMUNOLOGY MAR 2003, vol. 131, no. 3, March 2003 (2003-03-01), pages 528 - 535, XP002467651, ISSN: 0009-9104  
• [X] MATTHAEUS T ET AL: "ACUTE ISCHEMIC RENAL FAILURE INDUCES EXPRESSION OF NEUTROPHIL GELATINASE-ASSOCIATED LIPOCALIN AND MATRIX METALLOPROTEINASE-9 IN DAMAGED TUBULI", KIDNEY AND BLOOD PRESSURE RESEARCH, BASEL, CH, vol. 24, no. 4-6, 29 September 2001 (2001-09-29), pages 342, XP009065224, ISSN: 1420-4096

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

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EP 1766395 A2 20070328; EP 1766395 A4 20080319; EP 1766395 B1 20101117; EP 1766395 B2 20180919; EP 2264459 A2 20101222;  
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US 2011143456 A1 20110616; US 2011244489 A1 20111006; WO 2005121788 A2 20051222; WO 2005121788 A3 20060511

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